

1   **WHAT IS CLAIMED IS:**

2           1. An auto-released hinge for a mobile phone comprising:

3           a barrel with two open ends, the barrel having a first flange formed inside the  
4   barrel at the first open end, a first spiral slot defined in an inner wall of the first flange,  
5   two stop slots defined in a middle portion of the barrel and at two diametrically opposite  
6   inner sides, and two second spiral slots defined at two diametrically opposite inner sides  
7   of the barrel and between the respective stop slots and the first flange;

8           a pintle rotatably received in the barrel, the pintle having a head formed at a first  
9   end of the pintle and extending out from the first open end of the barrel, a second flange  
10   formed adjacent a second end of the pintle and received in the barrel, a protrusion  
11   formed at an outer periphery of the pintle and adjacent the head and received in the first  
12   spiral slot, two ridges formed at two diametrically opposite sides of the pintle and  
13   adjacent the second flange and respectively blocked in the stop slots;

14          a resilient member provided outside the second end of the pintle; and

15          a fastener positioned in the barrel to fasten the pintle and the resilient member in  
16   the barrel.

17          2. The auto-released hinge as claimed in claim 1, wherein the first spiral slot  
18   extends in a half circumference of the barrel.

19          3. The auto-released hinge as claimed in claim 1, wherein the barrel has two  
20   openings defined through an outer periphery of the barrel and at the diametrically  
21   opposite sides and adjacent the second open end, and the fastener has two wings  
22   respectively positioned in the openings.

23          4. The auto-released hinge as claimed in claim 1 further comprising a button  
24   mounted on the head of the pintle.